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1 DSD: A schema language for XML   ▭
Nils Klarlund, Anders Moller, Michael I. Schwartzbach
August 2000 **Proceedings of the third workshop on Formal methods in software practice**

Full text available: 📄 pdf(380.33 KB)   Additional Information: full citation, abstract, references, citings, index terms

XML (eXtensible Markup Language) is a linear syntax for trees, which has gathered a remarkable amount of interest in industry. The acceptance of XML opens new venues for the application of formal methods such as specification of abstract syntax tree sets and tree transformations. A notation for defining a set of XML trees is called a schema language. Such trees correspond to a specific user domain, such as XHTML, the class of XML documents that make sens ...

2 Annotea: an open RDF infrastructure for shared Web annotations   ▭
José Kahan, Marja-Ritta Koivunen
April 2001 **Proceedings of the tenth international conference on World Wide Web**

Full text available: 📄 pdf(271.46 KB) · Additional Information: full citation, references, citings, index terms

Keywords: RDF, World-Wide Web, XML, XPointer, annotations, metadata, semantic web

3 Articles: The Deliberate Revolution   ▭
Mike Burner
March 2003 **Queue**, Volume 1 Issue 1

Full text available: 📄 pdf(326.81 KB)
              📄 html(64.11 KB)   Additional Information: full citation, index terms

4 The Web Service Discovery Architecture   ▭
Wolfgang Hoschek
November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing**

Full text available: 📄 pdf(282.28 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we propose the Web Service Discovery Architecture (WSDA). At runtime, Grid applications can use this architecture to discover and adapt to remote services. WSDA promotes an interoperable web service discovery layer by defining appropriate services,

interfaces, operations and protocol bindings, based on industry standards. It is unified because it subsumes an array of disparate concepts, interfaces and protocols under a single semi-transparent umbrella. It is modular because it def ...

5 Special topic section on peer to peer data management: Design issues and challenges for RDF- and schema-based peer-to-peer systems
Wolfgang Nejdl, Wolf Siberski, Michael Sintek
September 2003 **ACM SIGMOD Record**, Volume 32 Issue 3

Full text available: pdf(135.94 KB)   Additional Information: full citation, abstract, references

Databases have employed a schema-based approach to store and retrieve structured data for decades. For peer-to-peer (P2P) networks, similar approaches are just beginning to emerge. While quite a few database techniques can be re-used in this new context, a P2P data management infrastructure poses additional challenges which have to be solved before schema-based P2P networks become as common as schema-based databases. We will describe some of these challenges and discuss approaches to solve them. ...

6 Session 2: secure Web services: Designing a distributed access control processor for network services on the Web
Reiner Kraft
November 2002 **Proceedings of the 2002 ACM workshop on XML security**

Full text available: pdf(301.14 KB)   Additional Information: full citation, abstract, references, index terms

The service oriented architecture (SOA) is gaining more momentum with the advent of network services on the Web. A programmable and machine accessible Web is the vision of many,and might represent a step towards the semantic Web. However, security is a crucial requirement for the serious usage and adoption of the Web services technology. This paper enumerates design goals for an access control model for Web services. It then introduces an abstract general model for Web services components, along ...

Keywords: Web services, XML, access control, security

7 Distributed semantic query: RDFPeers: a scalable distributed RDF repository based on a structured peer-to-peer network
Min Cai, Martin Frank
May 2004 **Proceedings of the 13th international conference on World Wide Web**

Full text available: pdf(262.85 KB)   Additional Information: full citation, abstract, references, index terms

Centralized Resource Description Framework (RDF) repositories have limitations both in their failure tolerance and in their scalability. Existing Peer-to-Peer (P2P) RDF repositories either cannot guarantee to find query results, even if these results exist in the network, or require up-front definition of RDF schemas and designation of super peers. We present a scalable distributed RDF repository (RDFPeers) that stores each triple at three places in a multi-attribute addressable network by apply ...

Keywords: distributed RDF repositories, peer-to-peer, semantic web

8 Ontologies: A lightweight ontology repository
Jin Pan, Stephen Cranefield, Daniel Carter
July 2003 **Proceedings of the second international joint conference on Autonomous agents and multiagent systems**

Full text available: pdf(380.24 KB)   Additional Information: full citation, abstract, references, index terms

Multi-agent systems rely on shared ontologies to enable unambiguous communication between agents. An ontology defines the terms or vocabularies used within messages encoded using an agent communication language (ACL). In order for ontologies to be shared and reused, ontology repositories are needed to store and maintain ontologies. The

Otago Ontology Repository is a prototype implementation of a design to allow ontology designers and agents to use open Web standards to publish and retrieve ontol ...

Keywords: multi-agent systems, ontology repository

9 The BEA streaming XQuery processor

Daniela Florescu, Chris Hillery, Donald Kossmann, Paul Lucas, Fabio Riccardi, Till Westmann, J. Carey, Arvind Sundararajan

September 2004 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 13 Issue 3

Full text available: pdf(328.94 KB)   Additional Information: full citation, abstract

This paper describes the design, implementation, and performance characteristics of a commercial XQuery processing engine, the BEA streaming XQuery processor. This XQuery engine was designed to provide high performance for message-processing applications, i.e., for transforming XML data streams. The engine is a central component of the 8.1 release of BEA's WebLogic Integration (WLI) product. The BEA XQuery engine is fully compliant with the August 2002 draft of the W3C XML Query Langua ...

10 Infastructure for implementation: XQuery at your web service

Nicola Onose, Jerome Simeon

May 2004 **Proceedings of the 13th international conference on World Wide Web**

Full text available: pdf(115.20 KB)   Additional Information: full citation, abstract, references, index terms

XML messaging is at the heart of Web services, providing the flexibility required for their deployment, composition, and maintenance. Yet, current approaches to Web services development hide the messaging layer behind Java or C# APIs, preventing the application to get direct access to the underlying XML information. To address this problem, we advocate the use of a native XML language, namely XQuery, as an integral part of the Web services development infrastructure. The main contribution of the ...

Keywords: XML, XQuery, interface, modules, web services, wsdl

11 Business-to-business interactions: issues and enabling technologies

B. Medjahed, B. Benatallah, A. Bouguettaya, A. H. H. Ngu, A. K. Elmagarmid

May 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 1

Full text available: pdf(558.34 KB)   Additional Information: full citation, abstract, index terms

Business-to-Business (B2B) technologies pre-date the Web. They have existed for at least as long as the Internet. B2B applications were among the first to take advantage of advances in computer networking. The Electronic Data Interchange (EDI) business standard is an illustration of such an early adoption of the advances in computer networking. The ubiquity and the affordability of the Web has made it possible for the masses of businesses to automate their B2B interactions. However, several issu ...

Keywords: B2B Interactions, Components, E-commerce, EDI, Web services, Workflows, XML

12 A framework for sharing personal annotations on web resources using XML

Takeshi Sannomiya, Toshiyuki Amagasa, Masatoshi Yoshikawa, Shunsuke Uemura

January 2001 **Australian Computer Science Communications**, Volume 23 Issue 6

Full text available: pdf(835.34 KB)

Publisher Site

Additional Information: full citation, abstract, references, citings

In this paper, we propose WISPA (Web Indicator by Sharing Personal Annotations)

Framework, which aims at mining useful information from communities on the World Wide Web with sharing personal annotations. In WISPA, annotations assigned to web pages on WWW are highly respected, because personal annotations contain each users' opinions or impressions to web pages, and those annotations can be used as essential materials for judging whether an information is important or not. Concretely, the proces ...

Keywords: WWW, XLink, XML, XML schema, merged annotation, personal annotation

13 Using Web Service Technologies to Create an Information Broker: An Experience Report
May 2004 **Proceedings of the 26th International Conference on Software Engineering**

Full text available: pdf(305.99 KB)
Publisher Site

Additional Information: full citation, abstract

This paper reports on our experiences with using theemerging web service technologies and tools to create ademonstration information broker system as part of ourresearch into information management in a distributedenvironment. To provide a realistic context we chose tostudy the use of information in the healthcare domain,and this context sets some challenging parameters andconstraints for our research and for the demonstrationsystem. In this paper we both report on the extent towhich existing we ...

14 Distributed semantic query: Remindin': semantic query routing in peer-to-peer networks based on social metaphors
Christoph Tempich, Steffen Staab, Adrian Wranik
May 2004 **Proceedings of the 13th international conference on World Wide Web**

Full text available: pdf(348.43 KB)   Additional Information: full citation, abstract, references, index terms

In peer-to-peer networks, finding the appropriate answer for an information request, such as the answer to a query for RDF(S) data, depends on selecting the right peer in the network. We hereinvestigate how social metaphors can be exploited effectively andefficiently to solve this task. To this end, we define a method for query routing, REMINDIN', that lets (i) peers observewhich queries are successfully answered by other peers,(ii), memorizes this obser ...

Keywords: ontologies, peer selection, peer-to-peer, query routing

15 Comparative analysis of six XML schema languages
Dongwon Lee, Wesley W. Chu
September 2000 **ACM SIGMOD Record**, Volume 29 Issue 3

Full text available: pdf(305.98 KB)   Additional Information: full citation, abstract, citings, index terms

As XML [5] is emerging as *the* data format of the internet era, there is an substantial increase of the amount of data in XML format. To better describe such XML data structures and constraints, several XML schema languages have been proposed. In this paper, we present a comparative analysis of six noteworthy XML schema languages.

16 Requirements for and evaluation of RMI protocols for scientific computing
Madhusudhan Govindaraju, Aleksander Slominski, Venkatesh Choppella, Randall Bramley, Dennis Gannon
November 2000 **Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available: pdf(306.83 KB)
Publisher Site

Additional Information: full citation, abstract, references, citings, index terms

Distributed software component architectures provide a promising approach to the problem of building large scale, scientific Grid applications. Communication in these component

architectures is based on Remote Method Invocation (RMI) protocols that allow one software component to invoke the functionality of another. Examples include Java remote method invocation (Java RMI) and the new Simple Object Access Protocol (SOAP). SOAP has the advantage that many programming languages and component ...

Keywords: Distributed computing, software component systems, communicationprotocols, RMI,Java, SOAP

17 Using the semantic web: Agent-based semantic web services
Nicholas Gibbins, Stephen Harris, Nigel Shadbolt
May 2003 **Proceedings of the twelfth international conference on World Wide Web**

Full text available: pdf(219.81 KB)   Additional Information: full citation, abstract, references, citings, index terms

The Web Services world consists of loosely-coupled distributed systems which adapt to ad-hoc changes by the use of service descriptions that enable opportunistic service discovery. At present, these service descriptions are semantically impoverished, being concerned with describing the functional signature of the services rather than characterising their meaning. In the Semantic Web community, the DAML Services effort attempts to rectify this by providing a more expressive way of describing Web ...

Keywords: DAML-S, agent communication languages, ontologies, semantic web, web services

18 Copyrights and access-rights: Experiences with the enforcement of access rights extracted from ODRL-based digital contracts
Susanne Guth, Gustaf Neumann, Mark Strembeck
October 2003 **Proceedings of the 2003 ACM workshop on Digital rights management**

Full text available: pdf(241.29 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we present our experiences concerning the enforcement of access rights extracted from ODRL-based digital contracts. We introduce the generalized *Contract Schema* (CoSa) which is an approach to provide a generic representation of contract information on top of rights expression languages. We give an overview of the design and implementation of the xoRELInterpreter software component. In particular, the xoRELInterpreter interprets digital contracts that are based on rights exp ...

19 Semantics and discovery: Cooperative middleware specialization for service oriented architectures
Nirmal K. Mukhi, Ravi Konuru, Francisco Curbera
May 2004 **Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters**

Full text available: pdf(113.65 KB)   Additional Information: full citation, abstract, references, index terms

Service-oriented architectures (SOA) will provide the basis of thenext generation of distributed software systems, and have already gained enormous traction in the industry through an XML--based instantiation, Web services. A central aspect of SOAs is the looser coupling between applications (services) that is achieved when services publish their functional and non-functional behavioral characteristics in a standardized, machine readable format. In this paper we argue that in the basic SOA model ...

Keywords: metadata exchange, middleware reconfiguration, service-oriented architecture, web services

20 Industrial sessions: beyond relational tables: An ebXML infrastructure implementation through UDDI registries and RosettaNet PIPs

Asuman Dogac, Yusuf Tambag, Pinar Pembecioglu, Sait Pektas, Gokce Laleci, Gokhan Kurt, Serkan Toprak, Yildiray Kabak

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**

Full text available: pdf(1.25 MB)   Additional Information: full citation, abstract, references, citings, index terms

Today's Internet based businesses need a level of interoperability which will allow trading partners to seamlessly and dynamically come together and do business without ad hoc and proprietary integrations. Such a level of interoperability involves being able to find potential business partners, discovering their services and business processes, and conducting business "on the fly". This process of dynamic interoperation is only possible through standard B2B frameworks. Indeed a number of B2B ele ...

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Relevance scale ☐ ☐ ◪ ◼ ◼

21 Applications of formal methods: Verifying policy-based security for web services   ◼

Karthikeyan Bhargavan, Cédric Fournet, Andrew D. Gordon
October 2004 **Proceedings of the 11th ACM conference on Computer and communications security**

Full text available: 🗎 pdf(269.16 KB)   Additional Information: full citation, abstract, references, index terms

WS-SecurityPolicy is a declarative configuration language for driving web services security mechanisms. We describe a formal semantics for WS-SecurityPolicy, and propose a more abstract link language for specifying the security goals of web services and their clients. Hence, we present the architecture and implementation of fully automatic tools that (1) compile policy files from link specifications, and (2) verify by invoking a theorem prover whether a set of policy files run by any number o ...

Keywords: XML security, pi calculus, web services

22 Scaling up the semantic web: Super-peer

Richly interlinked, machine-understandable data constitute the basis for the Semantic Web. We provide a framework, CREAM, that allows for creation of metadata. While the annotation mode of CREAM allows to create metadata for existing web pages, the authoring mode lets authors create metadata --- almost for free --- while putting together the content of a page.As a particularity of our framework, CREAM allows to create *relational metadata*, i.e. metadata that instantiate interrelated defini ...

Keywords: RDF, annotation, metadata, semanticWeb

24 Using Event-Based Translation to Support Dynamic Protocol Evolution
May 2004 **Proceedings of the 26th International Conference on Software Engineering**

Full text available: pdf(150.63 KB)
Publisher Site   Additional Information: full citation, abstract

All systems built from distributed components involve theuse of one or more protocols for inter-component communication.Whether these protocols are based on a broadlyused "standard" or are specially designed for a particularapplication, they are likely to evolve. The goal of the workdescribed here is to contribute techniques that can supportprotocol evolution. We are concerned not with how or whya protocol might evolve, or even whether that evolution isin some sense correct. Rather, our concern ...

25 Anatomy of a Web service
Kamalsinh F. Chavda
January 2004 **Journal of Computing Sciences in Colleges**, Volume 19 Issue 3

Full text available: pdf(869.66 KB)   Additional Information: full citation, abstract, references, index terms

One of the newest innovations for the use of the Internet is Web services. Web services allow applications and Internet-enabled devices to easily communicate with one another and combine their functionality to provide services to each other, independent of platform or language. Web services are characterized by SOAP messages used to talk to a Web service, WSDL files that describe a Web service, and the UDDI used to find Web services. Conceptually, Web services are very understandable. They elimi ...

26 Trustworthy 100-year digital objects: Evidence after every witness is dead
Henry M. Gladney
July 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 3

Full text available: pdf(1.24 MB)   Additional Information: full citation, abstract, references, index terms

In ancient times, wax seals impressed with signet rings were affixed to documents as evidence of their authenticity. A digital counterpart is a message authentication code fixed firmly to each important document. If a digital object is sealed together with its own audit trail, each user can examine this evidence to decide whether to trust the content---no matter how distant this user is in time, space, and social affiliation from the document's source.We propose an architecture and design that a ...

27 Semantic interfaces and OWL tools: How to make a semantic web browser
D. A. Quan, R. Karger
May 2004 **Proceedings of the 13th international conference on World Wide Web**

Full text available: pdf(484.00 KB)   Additional Information: full citation, abstract, references, index terms

Two important architectural choices underlie the success of the Web: numerous, independently operated servers speak a common protocol, and a single type of client the Web browser provides point-and-click access to the content and services on these decentralized servers. However, because HTML marries content and presentation into a single representation, end users are often stuck with inappropriate choices made by the Web site designer of how to work with and view the content. RDF metadata on the ...

Keywords: bioinformatics, rdf, semantic web, user interface, web services

28 Composing Web services on the Semantic Web

Brahim Medjahed, Athman Bouguettaya, Ahmed K. Elmagarmid

November 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 4

Full text available: pdf(1.29 MB)   Additional Information: full citation, abstract, index terms

Service composition is gaining momentum as the potential *silver bullet* for the envisioned *Semantic Web*. It purports to take the Web to unexplored efficiencies and provide a flexible approach for promoting all types of activities in tomorrow's Web. Applications expected to heavily take advantage of Web service composition include B2B E-commerce and E-government. To date, enabling composite services has largely been an ad hoc, time-consuming, and error-prone process involving r ...

Keywords: Ontology, Semantic Web, Service composition, Web services

29 Session 3: XML applications: Towards an XML format for time-stamps

Karel Wouters, Bart Preneel, Ana Isabel González-Tablas, Arturo Ribagorda

November 2002 **Proceedings of the 2002 ACM workshop on XML security**

Full text available: pdf(172.48 KB)   Additional Information: full citation, abstract, references

XML has become a well-established format for information exchange. Several formats have been defined to secure XML data, such as XML Digital Signatures, XML Encryption and XKMS. In recent work by ETSI on XML digital signatures conforming to European legislation, time-stamps play a key role for qualified digital signatures. Some ASN.1-based formats for time-stamp protocols have been defined within IETF and ISO/IEC. In this paper, we investigate how the wide range of time-stamping protocols in the ...

30 Specifying conflict of interest assertions in WS-policy with Chinese wall security policy

Patrick C. K. Hung, Guang-Sha Qiu

March 2003 **ACM SIGecom Exchanges**, Volume 4 Issue 1

Full text available: pdf(270.12 KB)   Additional Information: full citation, abstract, references, index terms

A Web service is defined as an autonomous unit of application logic that provides either some business functionality or information to other applications through an Internet connection. Web services are based on a set of XML standards such as Simple Object Access Protocol (SOAP), Universal Description, Discovery and Integration (UDDI) and Web Services Description Language (WSDL). The benefits of adopting Web services over traditional business-to-business applications include faster time to produ ...

Keywords: Chinese wall security policy, WS-policy, WS-policy attachment, conflict of interest, delegation, matchmaking, security assertion, security policy, service locators

31 Session 6: Customizable description and dynamic discovery for web services

Wooyoung Kim, Alan H. Karp

May 2004 **Proceedings of the 5th ACM conference on Electronic commerce**

Full text available: pdf(188.80 KB)   Additional Information: full citation, abstract, references, index terms

We present a framework for developing ontologies suitable for a dynamic environment, such as that for web services, and describe itsuse in a commercial system for resource discovery. This framework recognizes the importance of standards but allows for evolution in away that doesn't disrupt those adhering to the standards. The framework is based on the notion of discoverable resources which offer extensibility and security. The specific ontology we use in thesystem includes some salient features, ...

Keywords: ontologies, service description and discovery, web services

32 <u>Session 9A: applications in commerce: A multi-agent platform for a corporate semantic</u>
<u>web</u>
Fabien Gandon, Laurent Berthelot, Rose Dieng-Kuntz
July 2002   **Proceedings of the first international joint conference on Autonomous**
agents and multiagent systems: part 3
Full text available: pdf(376.01 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>
<u>terms</u>

We describe the technical choices and the design of a multi-agents software architecture to
manage a corporate memory in the form of a corporate semantic web. We then present our
approach to tackle a distributed memory and distributed queries.

Keywords: MAS architecture, distributed knowledge management, ontology, semantic web

33 <u>Data model for extensible support of explicit relationships in design databases</u>
Joan Peckham, Bonnie MacKellar, Michael Doherty
April 1995   **The VLDB Journal — The International Journal on Very Large Data Bases**,
Volume 4 Issue 2
Full text available: pdf(2.01 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>

We describe the conceptual model of SORAC, a data modeling system developed at the
University of Rhode Island. SORAC supports both semantic objects and relationships, and
provides a tool for modeling databases needed for complex design domains. SORAC's set of
built-in semantic relationships permits the schema designer to specify enforcement rules
that maintain constraints on the object and relationship types. SORAC then automatically
generates C++ code to maintain the specified enforcement rules ...

Keywords: computer-aided architectural design, database constraints, relationship
semantics, semantic and object-oriented data modeling

34 <u>A semantics for web services authentication</u>
Karthikeyan Bhargavan, Cédric Fournet, Andrew D. Gordon
January 2004   **ACM SIGPLAN Notices , Proceedings of the 31st ACM SIGPLAN-SIGACT**
symposium on Principles of programming languages, Volume 39 Issue 1
Full text available: pdf(234.06 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

We consider the problem of specifying and verifying cryptographic security protocols for
XML web services. The security specification WS-Security describes a range of XML security
tokens, such as username tokens, public-key certificates, and digital signature blocks,
amounting to a flexible vocabulary for expressing protocols. To describe the syntax of these
tokens, we extend the usual XML data model with symbolic representations of cryptographic
values. We use predicates on this data model to d ...

Keywords: XML security, applied pi calculus, web services

35 <u>Special issue of the lexicon: The self-extending phrasal lexicon</u>
Uri Zernik, Michael G. Dyer
July 1987   **Computational Linguistics**, Volume 13 Issue 3-4
Full text available: pdf(2.01 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>
<u>Publisher Site</u>

Lexical representation so far has not been extensively investigated in regard to *language
acquisition*. Existing computational linguistic systems assume that text analysis and

generation take place in conditions of complete lexical knowledge. That is, no unknown elements are encountered in processing text. It turns out however, that *productive* as well as *non-productive* word combinations require adequate consideration. Thus, *assuming* the existence of a complete lexicon ...

36 Ubiquitous WWW: Implementing physical hyperlinks using ubiquitous identifier resolution

Tim Kindberg
May 2002 **Proceedings of the eleventh international conference on World Wide Web**

Full text available: pdf(400.83 KB)   Additional Information: full citation, abstract, references, citings, index terms

Identifier resolution is presented as a way to link the physical world with virtual Web resources. In this paradigm, designed to support nomadic users, the user employs a handheld, wirelessly connected, sensor-equipped device to read identifiers associated with physical entities. The identifiers are resolved into virtual resources or actions related to the physical entities - as though the user 'clicked on a physical hyperlink'. We have integrated identifier resolution with the Web so that it ca ...

Keywords: identifier resolution, mobile computing, nomadic computing, physical hyperlinks, ubiquitous computing

37 Session 4: Web service applications: Towards securing XML Web services

Ernesto Damiani, Sabrina De Capitani di Vimercati, Pierangela Samarati
November 2002 **Proceedings of the 2002 ACM workshop on XML security**

Full text available: pdf(198.65 KB)   Additional Information: full citation, abstract, references, citings, index terms

Security is currently one of the main concerns about XML Web services. Several initiatives are currently ongoing aimed at achieving a standardized way for supporting integrity, confidentiality, and access control for XML Web services. This paper looks into these approaches and gives some hints for future research.

Keywords: SOAP, Web services, access control

38 Embedded systems: applications, solutions and techniques (EMBS): Code generation techniques for developing light-weight XML Web services for embedded devices

Robert van Engelen
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Full text available: pdf(404.19 KB)   Additional Information: full citation, abstract, references

This paper presents specialized code generation techniques and runtime optimizations for developing light-weight XML Web services for embedded devices. The optimizations are implemented in the gSOAP Web services development environment for C and C++. The system supports the industry-standard XML-based Web services protocols that are intended to deliver universal access to any networked application that supports XML. With the standardization of the Web services protocols and the availability of t ...

Keywords: Web Services, XML, embedded systems, networking

39 Languages & Authoring for the Semnatic Web: The Yin/Yang web: XML syntax and RDF semantics

Peter Patel-Schneider, Jérôme Siméon
May 2002 **Proceedings of the eleventh international conference on World Wide Web**

Full text available: pdf(162.67 KB)   Additional Information: full citation, abstract, references, citings, index

terms

XML is the W3C standard document format for *writing* and *exchanging* information on the Web. RDF is the W3C standard model for *describing the semantics* and *reasoning about* information on the Web. Unfortunately, RDF and XML---although very close to each other--- are based on two different paradigms. We argue that in order to lead the Semantic Web to its full potential, the syntax and the semantics of information needs to work together. To this end, we develop a model-theo ...

Keywords: RDF, XML, data models, model theory, semantic web

40 Reviewed articles: SIGAda 2001 workshop, "creating a symbiotic relationship between XML and Ada"
Robert C. Leif
September 2002 **ACM SIGAda Ada Letters**, Volume XXII Issue 3

Full text available: pdf(1.39 MB)   Additional Information: full citation, abstract, references, citings, index terms

The purpose of the workshop was to organize the Ada community to take advantage of the opportunity to create Ada applications that are operating systems independent because they are based on a web technology, XML, Extensible Markup Language. The commercial use of the Internet is the driving force behind XML. Four elements of XML, which together are sufficient to build a web application, and all employ the same syntax were described. These are XML; its schema; the Extensible Stylesheet Language, ...

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41 Ubiquitous WWW: Profiles for the situated web   ▬
Lalitha Suryanarayana, Johan Hjelm
May 2002 **Proceedings of the eleventh international conference on World Wide Web**

Full text available: 📄 pdf(263.89 KB)   Additional Information: full citation, abstract, references, index terms

The World Wide Web is evolving into a medium that will soon make it possible for conceiving and implementing situation-aware services. A situation-aware or situated web application is one that renders the user with an experience (content, interaction and presentation) that is so tailored to his/her current situation. This requires the facts and opinions regarding the context to be communicated to the server by means of a profile, which is then applied against the description of the application o ...

Keywords: CC/PP, XML, profiles, situated-aware applications, vocabulary, web architecture

42 The design and implementation of the redland RDF application framework   ▬
David Beckett
April 2001 **Proceedings of the tenth international conference on World Wide Web**

Full text available: 📄 pdf(171.61 KB) Additional Information: full citation, references, citings, index terms

Keywords: RDF, application framework, metadata

43 Scalable Networked Information Processing Environment (SNIPE)   ▬
Graham E Fagg, Keith Moore, Jack J Dongarra, Al Geist
November 1997 **Proceedings of the 1997 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available: 📄 pdf(77.42 KB)   Additional Information: full citation, abstract, references, citings

SNIPE is a metacomputing system that aims to provide a reliable, secure, fault-tolerant environment for long-term distributed computing applications and data stores across the global InterNet. This system combines global naming and replication of both processing and data to support large scale information processing applications leading to better availablity and reliability than currently available with typical cluster computing and/or distributed computer environments.

Keywords: MetaComputing, RCDS, SNIPE, reliable, scalable, secure

44 Remedies for common user-agent problems

Karl Dubost, Hugo Haas, Ian Jacobs
May 2002 **interactions**, Volume 9 Issue 3

Full text available: pdf(68.31 KB)   Additional Information: full citation, abstract, references, index terms
html(34.90 KB)

User agents---that is browsers and other programs that deal with the Web---can fail the
user in many ways. This article, by three people deeply involved with the development of
the Web, documents some typical common user agent problems, and suggests correct ways
of working.

The authors use several Web-specific technical terms, so let me list
the important ones here:

• Fragment identifier: the part of a URI Web address
after a `#' character, typically id ...

45 Design and implementation of a resource sharing system as an extension to a
personal computer operating system

Rita C. Summers, Mostafa Ebrahimi, John M. Marberg, Uri Zernik
May 1985 **Proceedings of the 1985 ACM SIGSMALL symposium on Small systems**

Full text available: pdf(1.22 MB)   Additional Information: full citation, abstract, references

The software and hardware available today for personal computers provides a broad range
of support for personal productivity, business applications, research, programming, and
other activities. If personal computers are connected in a local area network, they can form
a system whose total resources are very great compared to those of each computer. With
appropriate system mechanisms, users can share these resources. We describe the design
and implementation of a resource sharing ...

46 Virtual extension: A comparison of B2B e-service solutions

Dan Jong Kim, Manish Agrawal, Bharat Jayaraman, H. Raghav Rao
December 2003 **Communications of the ACM**, Volume 46 Issue 12

Full text available: pdf(283.30 KB)
html(25.71 KB)   Additional Information: full citation, references, index terms

47 CDuce: an XML-centric general-purpose language

Véronique Benzaken, Giuseppe Castagna, Alain Frisch
August 2003 **ACM SIGPLAN Notices , Proceedings of the eighth ACM SIGPLAN
international conference on Functional programming**, Volume 38 Issue 9

Full text available: pdf(242.16 KB)   Additional Information: full citation, abstract, references, citings, index
terms

*We present the functional language CDuce, discuss some design issues, and show its
adequacy for working with XML documents. Distinctive features of CDuce are a powerful
pattern matching, first class functions, overloaded functions, a very rich type system
(arrows, sequences, pairs, records, intersections, unions, differences), precise type
inference for patterns and error localization, and a natural interpretation of types as sets of
values. We also outline some important implementation issue ...*

Keywords: *CDuce, XML, XML-processing, type systems*

48 Conferencing: Ubiquitous computing using SIP

Stefan Berger, Henning Schulzrinne, Stylianos Sidiroglou, Xiaotao Wu
June 2003 **Proceedings of the 13th international workshop on Network and operating
systems support for digital audio and video**

Full text available: pdf(96.16 KB)   Additional Information: full citation, abstract, references, index terms

In the past decade, there have been numerous efforts in ubiquitous computing, making

computational resources or communication more widely available. We believe that it is time to move to a global-scale ubiquitous computing system that is securable, administered by multiple independent administrators and integrates off-the-shelf hardware and software. We are developing such a system based on the Session Initiation Protocol (SIP), with Bluetooth devices for location sensing and Service Location Pr ...

Keywords: SIP, SLP, bluetooth, location based services, scalability, ubiquitous computing

49 <u>Certificate-based authorization policy in a PKI environment</u>

Mary R. Thompson, Abdelilah Essiari, Srilekha Mudumbai
November 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6 Issue 4
Full text available: <u>pdf(233.63 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

The major emphasis of public key infrastructure has been to provide a cryptographically secure means of authenticating identities. However, procedures for authorizing the holders of these identities to perform specific actions still need additional research and development. While there are a number of proposed standards for authorization structures and protocols such as KeyNote, SPKI, and SAML based on X.509 or other key-based identities, none have been widely adopted. As part of an effort to us ...

Keywords: Public key infrastructure, XML, digital certificates

50 <u>Linking documents: An open linking service supporting the authoring of web documents</u>

Renato Bulcao Neto, Claudia Akemi Izeki, Maria da Graça Pimentel, Renata Pontin Fortes, Khai Nhut Truong
November 2002 **Proceedings of the 2002 ACM symposium on Document engineering**
Full text available: <u>pdf(447.35 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Both content driven web authors and application designers may have their attention deviated from their main task when they have to be concerned with the generation of elaborated linking structures. This work aims to demonstrate how a metadata-enhanced web-based open linking service can be exploited towards supporting content driven authors in their tasks. The following results are presented in this paper: (a) the Web Linking Service (WLS), a novel open hypermedia system that stores and exchanges ...

Keywords: RDF-based metadata, content driven authoring, document engineering, open linking service, web engineering

51 <u>Integrating Web Service and Grid Enabling Technologies to Provide Desktop Access to High-Performance Cluster-Based Components for Large-Scale Data Services</u>

Victor P. Holmes, Wilbur R. Johnson, David J. Miller
March 2003 **Proceedings of the 36th annual symposium on Simulation**
Full text available: <u>pdf(157.88 KB)</u>
<u>Publisher Site</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>index terms</u>

At Sandia National Laboratories, a Data Servicessystem is under development to provide web-based accessto high-performance computing clusters. These clustershost a set of scalable post-processing applications for verylarge data manipulation and visualization of resultsgenerated by large-scale simulations in support of thedesign to analysis process for ensuring safety andreliability of the nation's nuclear weapons stockpile. Theprimary contribution of this work is the integration ofstandards-base ...

52 <u>Investigating link service infrastructures</u>

David C. De Roure, Nigel G. Walker, Leslie A. Carr
May 2000 **Proceedings of the eleventh ACM on Hypertext and hypermedia**

Full text available: ⬛ pdf(133.87 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Keywords: LDAP, Whois++, directory services, distributed link service, link service, open hypermedia, query routing

53 <u>Query Language for Semantic Web: EDUTELLA: a P2P networking infrastructure based on RDF</u>

Wolfgang Nejdl, Boris Wolf, Changtao Qu, Stefan Decker, Michael Sintek, Ambjörn Naeve, Mikael Nilsson, Matthias Palmér, Tore Risch
May 2002 **Proceedings of the eleventh international conference on World Wide Web**

Full text available: ⬛ pdf(331.38 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Metadata for the World Wide Web is important, but metadata for Peer-to-Peer (P2P) networks is absolutely crucial. In this paper we discuss the open source project Edutella which builds upon metadata standards defined for the WWW and aims to provide an RDF-based metadata infrastructure for P2P applications, building on the recently announced JXTA Framework. We describe the goals and main services this infrastructure will provide and the architecture to connect Edutella Peers based on exchange of ...

Keywords: e-Learning, peer-to-peer, query languages, semantic web

54 <u>Document creation II: Techniques for authoring complex XML documents</u>

Vincent Quint, Irône Vatton
October 2004 **Proceedings of the 2004 ACM symposium on Document engineering**

Full text available: ⬛ pdf(265.88 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

This paper reviews the main innovations of XML and considers their impact on the editing techniques for structured documents. Namespaces open the way to compound documents; well-formedness brings more freedom in the editing task; CSS allows style to be associated easily with structured documents. In addition to these innovative features the wide deployment of XML introduces structured documents in many new applications including applications where text is not the dominant content type. In lan ...

Keywords: CSS, XML, authoring tools, compound documents, direct manipulation, structured editing, style languages

55 <u>Programming languages and object technologies: Automated assembly of software components based on XML-coded instructions</u>

Ian Nunn, Dwight Deugo
March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Full text available: ⬛ pdf(476.40 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Many approaches to reducing the cost, complexity and development time of software applications have been explored. Several techniques, most recently the Object Oriented paradigm, have been developed to facilitate the reuse of code. Even when these techniques employ the notion of components, they do so only in a limited way within the language's environment at development time. Within the field of Software Engineering, the study of Software Architecture has emerged to provide language support for ...

Keywords: XML, architecture definition language, component, software architecture, software components

56 Infastructure for implementation: Adapting databases and WebDAV protocol

Bita Shadgar, Ian Holyer

May 2004 **Proceedings of the 13th international conference on World Wide Web**

Full text available: pdf(253.41 KB)   Additional Information: full citation, abstract, references, index terms

> The ability of the Web to share data regardless of geographical location raises a new issue called remote authoring. With the Internet and Web browsers being independent of hardware, it becomes possible to build Web-enabled database applications. Many approaches are provided to integrate databases into the Web environment, which use the Web's protocol i.e. HTTP to transfer the data between clients and servers. However, those methods are affected by the HTTP shortfalls with regard to remote autho ...

57 Semantic interfaces and OWL tools: Parsing owl dl: trees or triples?

Sean K. Bechhofer, Jeremy J. Carroll

May 2004 **Proceedings of the 13th international conference on World Wide Web**

Full text available: pdf(156.25 KB)   Additional Information: full citation, abstract, references, index terms

> The Web Ontology Language (OWL) defines three classes of documents: Lite, DL, and Full. All RDF/XML documents are OWL Full documents, some OWL Full documents are also OWL DL documents, and some OWL DL documents are also OWL Lite documents. This paper discusses *parsing* and *species recognition* -- that is the process of determining whether a given document falls into the OWL Lite, DL or Full class. Wedescribe two alternative approaches to this task, one based on abstract syntax trees, ...

Keywords: owl, parsing, rdf, semantic web

58 E-commerce: A system for principled matchmaking in an electronic marketplace

Tommaso Di Noia, Eugenio Di Sciascio, Francesco M. Donini, Marina Mongiello

May 2003 **Proceedings of the twelfth international conference on World Wide Web**

Full text available: pdf(143.82 KB)   Additional Information: full citation, abstract, references, index terms

> More and more resources are becoming available on the Web, and there is a growing need for infrastructures that, based on advertised descriptions, are able to semantically match demands with supplies.We formalize general properties a matchmaker should have, then we present a matchmaking facilitator, compliant with desired properties.The system embeds a NeoClassic reasoner, whose structural subsumption algorithm has been modified to allow match categorization into potential and partial, and ranki ...

Keywords: description logics, e-commerce, knowledge representation, matchmaking

59 Protecting data privacy in private information retrieval schemes

Yael Gertner, Yuval Ishai, Eyal Kushilevitz, Tal Malkin

May 1998 **Proceedings of the thirtieth annual ACM symposium on Theory of computing**

Full text available: pdf(1.65 MB)   Additional Information: full citation, references, citings, index terms

60 Deficiencies in LDAP when used to support PKI

David Chadwick

March 2003 **Communications of the ACM**, Volume 46 Issue 3

Full text available: pdf(100.30 KB)
                     html(33.33 KB)   Additional Information: full citation, abstract, references, index terms

> Problems arise when a protocol initially developed to simplify access to a distributed

directory failed to take into account all the uses the directory was originally intended for.

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